INAZUMA DRUM FILTER

ITF - 30 MK III
ITF - 50 MK III
ITF - 80 MK III
ITF -120 MK III
ITF -240 MK III

Instruction manual & User guide

1. Preface

Congratulations on your new acquisition – a filter made by Inazuma!

To avoid restrictions on function and warranty it is important to read this manual carefully.

To make sure your filter works as supposed to, we ask you to follow the manual, the user- guide and additional notes that are provided with this product, closely.

In the event of emerging questions not addressed in this manual we ask you to get in contact with your (local) dealer.

2. Safety Note and Warnings

Please store this manual at an accessible location to be able to address emerging questions about installation, function and debugging.

It is recommended to keep a copy of this manual close to the filter so e.g. technicians are able to get quick access to all informations needed

Dear Customer,

To obtain warranty it is required that your supplier/dealer has completed the “Certificate of quality” (at the last page of this document) and that the certificate is signed and stamped!

CAUTION:

The manufacturer will not assume liability for damages emerged by misuse of the product or parts of it or by non-observance of rules, guides and manuals provided in this document and additional documents (including stickers and warning signs) provided with the product.

3. Warning Label

The sign standing next to this text will point out important warnings or significant Informations

4. Manufacturer

Inazuma
Johannes Kurzweil GmbH
Eisackstrasse 16
86165 Augsburg
Germany

tel.: +49 (0)821-72 919 71
fax.: +49 (0)821-72 919 73
email: info@inazuma-online.de
web: www.inazuma-online.de

5. WEEE - Registration

The WEEE-registration ensures that the producers are taking responsibility for their electrical and electronic equipment, especially the responsibility for recycling and disposing of these according to the “ElektroG”.

The Federal Environment Agency of Germany (Umweltbundesamt) confirms the registration of this product under the following number:

WEEE-Reg.-Nr. DE 46229826

6. EC- Declaration of Conformity

CE

Manufacturer: Inazuma
Johannes Kurzweil GmbH
Eisackstraße 16
86165 Augsburg
Germany

tel. +49 (0)821-72 919 71
fax. +49 (0)821-72 919 73

Device type: drum filter incl. electronic control unit and high-pressure pump

Term of Reference: Maschinenrichtlinie EU 98/37/EG
Niederspannunsrichtlinie 73/23/EWG

The manufacturer declares hereby the conformity of the product with the requirements mentioned above.

7. Alteration and Modification

We point out that every alteration or modification without approval - in writing - by Inazuma or one of its authorized suppliers will cause the immediate annulment of the CE-Conformity. Inazuma will not assume liability for damages of persons or property emerged by unauthorized alterations or modifications.

8. Spare Parts

Only spare parts provided by Inazuma or one of its authorized suppliers are approved for installation. In the event of usage of non-authorized parts the warranty will expire and Inazuma will not assume liability for damages.
Only use special tooling.

9. Description and function of the product

The drum filter provided by Inazuma is a fully automatic device for the mechanically removal of particles in water cycles – especially for fish and swimming ponds.
It is not qualified for liquids other than water.

10. Transport

The filter must be transported in an upright position.
Do not lift the product by using force against the engine skid plate.

11. Installation and Connection

Installation and connection can only be done by qualified personal.

11.1. Before installation

Please examine the product before the beginning of the installation-procedure.Make sure that neither the product itself nor the wrapping is damaged.
Make sure that the filter does not contain objects.
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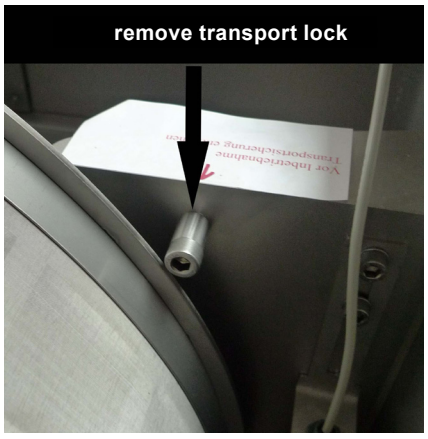
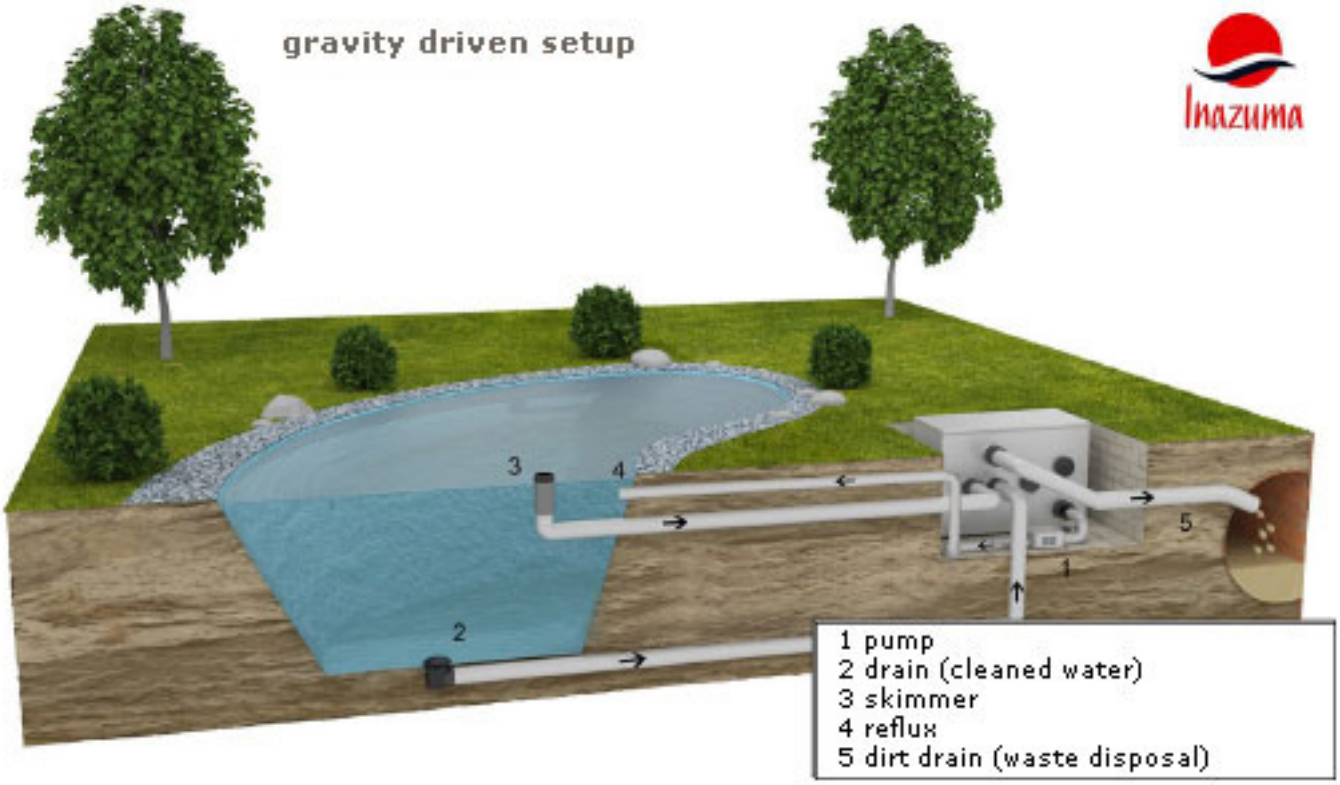
Before commissioning
remove the transport lock.
(not included in all products)



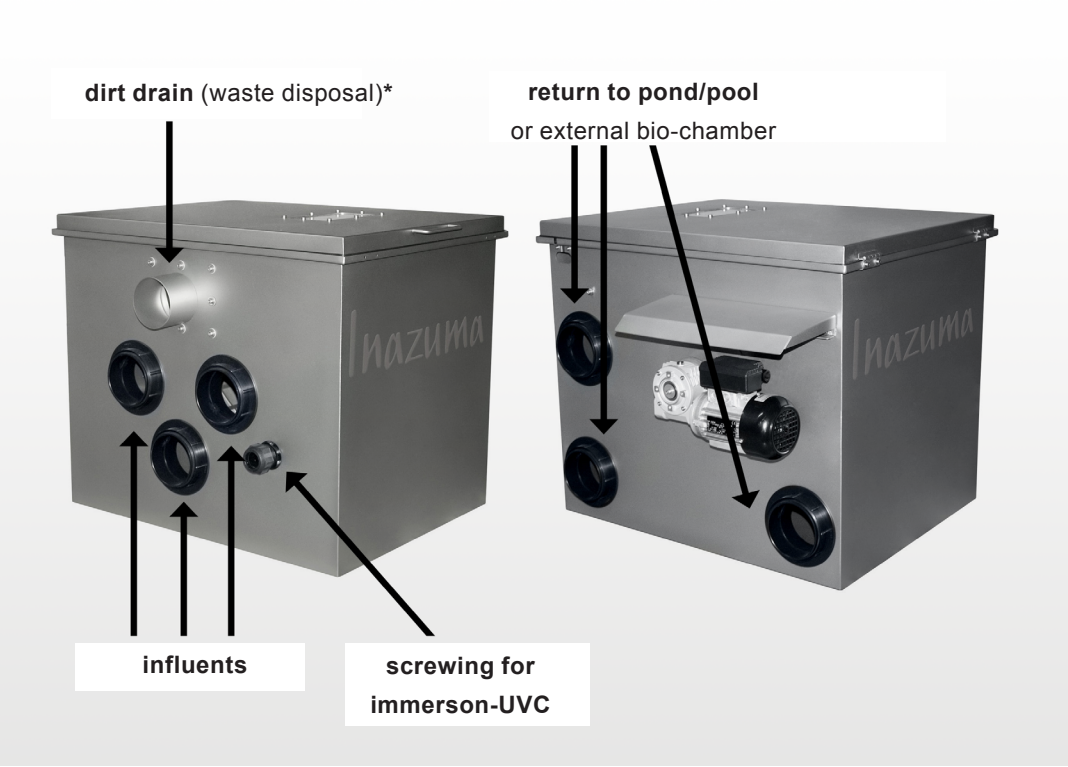
11.2. Installation: gravity driven setup



The filter must be attached to solid and plane ground. After positioning the filter, both axes (lengthwise and crosswise) must be aligned along the water-level.
The use of a spirit level is heavily recommended.

⚠ Make sure that none of the attached tubes puts mechanical load on the case of the filter.

connections: gravity driven setup



* Make sure that the drain reaches a much lower level. The slope will prevent blockages.

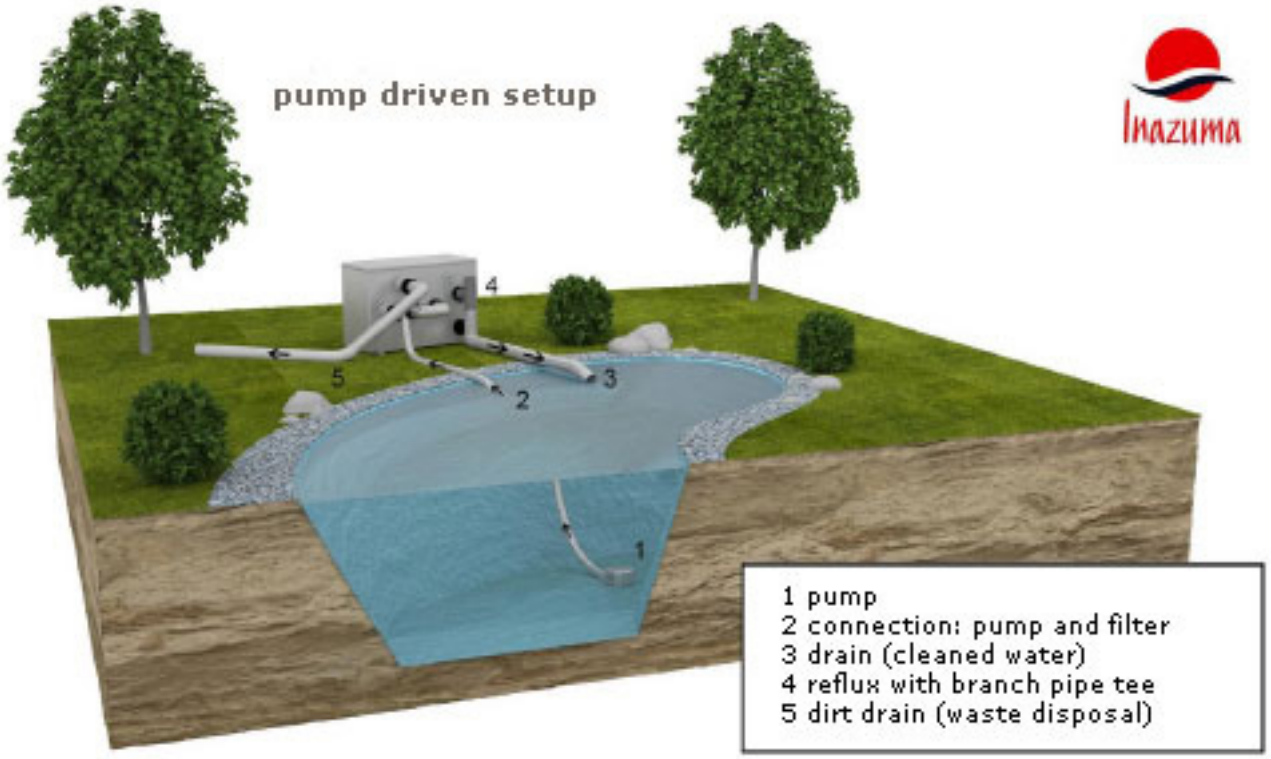
The filter must be attached to solid and plane ground. After positioning the filter, both axes (lengthwise and crosswise) must be aligned along the water-level.
The use of a spirit level is heavily recommended.

Make sure that none of the attached tubes puts mechanical load on the case of the filter.

Make sure that the filter, arranged in the gravity driven setup, is positioned in the right level within the water-level.
You can find a sticker, marking the right level, near the connections at the front side of the filter.

Information:
The cover top edge must be 14 cm above the maximal water level of your pond/pool.
tolerance upwards (more than 14 cm): max 10 cm
tolerance upwards (less than 14 cm): **None !**

11.3. Installation pump driven setup

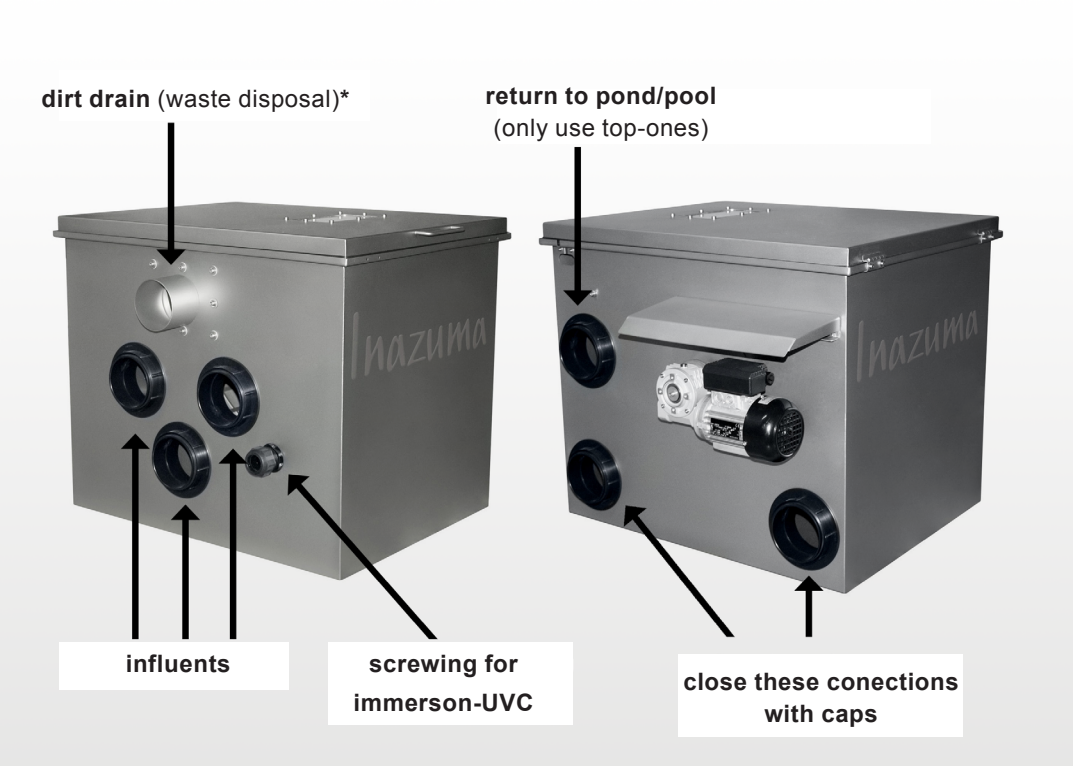


The filter must be attached to solid and plane ground. After positioning the filter, both axes (lengthwise and crosswise) must be aligned along the water-level.
The use of a spirit level is heavily recommended.

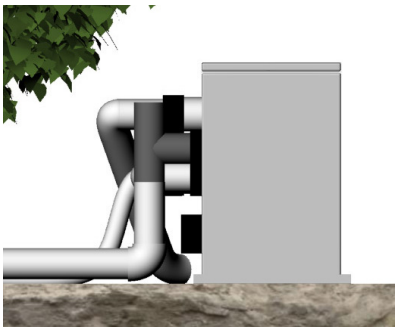
Make sure that none of the attached tubes puts mechanical load on the case of the filter.

Important note for the pump driven setup:
In an pump driven setup the amount of inlet connections must be reduced.
Cover unused inlet connections with caps.

connections: pump driven setup



* Make sure that the drain reaches a much lower level. The slope will prevent blockages.



Reflux connection:

In the pump driven setup it is recommended to use a branch pipe tee at the reflux connections to ventilate the system.

IMPORTANT NOTE FOR THE PUMP DRIVEN SETUP:
To prevent the loss of water in the event of malfunction,
the cover plates must be removed.

ATTENTION:

To prepare the filter for the pump driven setup convert the level-switch like it is shown in chapter 11.8 . The filter is always distributed prepared for the gravity driven setup.

Note that for the pump driven setup the level-switch must be installed in the prechamber. The perforations are prepared.

installation: Immersion-UVC

11.4. Installation: Immersion-UVC

All Inazuma MK-III-Series drum filter are prepared with designated connections for easy installation of immersion-UVC-Devices.

Assembly:
Insert the immersion-UVC carefully into the designated connection till the device reaches the fixture. Screw down the plastic screw hand-tight and make sure that the UVC reaches the fixture. Otherwise the glass can be damaged.

11.5.Rinsing: Settings and Operation

The rinsing-process will be activated automatically whenever the strainer is heavily dirty.

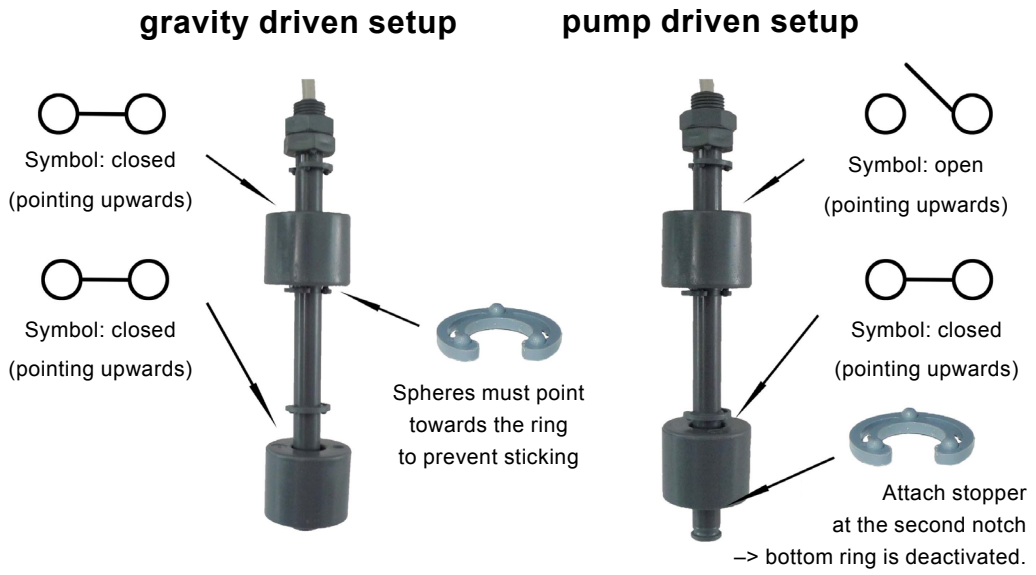
Driven by the inability of the water to pour through the (dirty) strainer
the water level will rise, triggering the level-switch. This will activate the rinsing-process.

The level-switch contains two separate floating-devices – two grey rings.

Top ring:
Activating the rinsing-process. At the end of every rinsing-cycle the top ring is supposed to float at the top.

Bottom ring:
Activating the emergency shutdown in the event of nonstop rinsing to prevent a drop of the water level at the pond/pool. The bottom ring is always supposed to be under water.

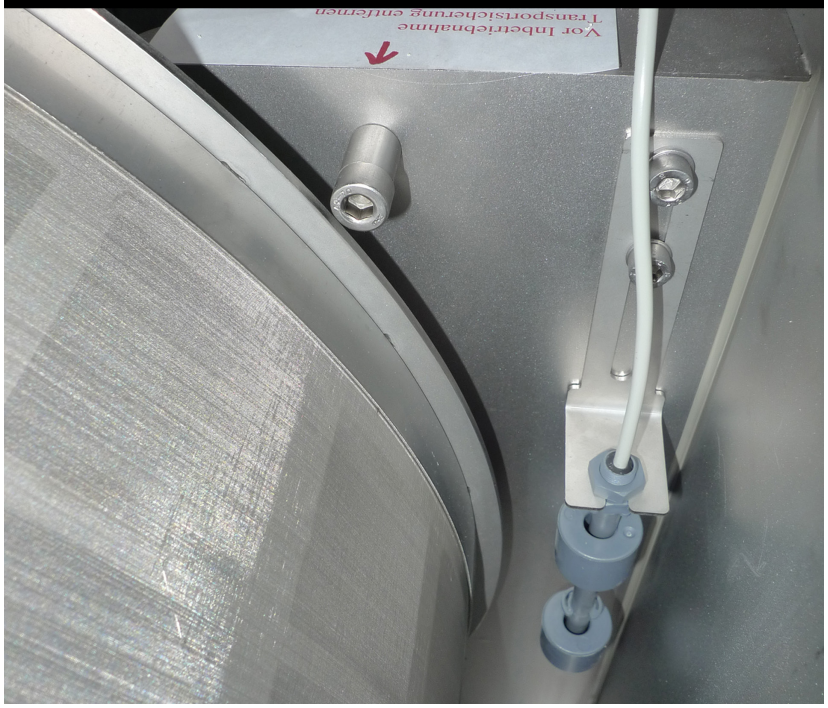
Configuration level-switch



ATTENTION:
If your pond/pool doesn't comes with a water-refill-automatition (water-level-regulation) it is needed to monitor the water level closely. Make sure that the water level never drops below the bottom ring. The rinsing-process would otherwise run nonstop till emergency shutdown.

➔ You can acquire a water-level-regulatior at Inazuma (Product-Number: IK1374)

Installation level-switch: gravity driven setup
clean-water-sector, sideways of the drum



Installation level-switch: pump driven setup
dirt-water-sector, in front of the drum

11.6. Installation: drum filter control / commissioning: drum filter

Connection for “Clever Touch” (touch panel) – optional

Connection for temperature sensor – optional

➔ Before commissioning the filter, the system must be filled with water and the cover must be closed.

- Control is splash proof (IP65)
- Protect from direct solar radiation!

➔ For installation at a wall use the provided holder. -> Do not breach the integrity of the case, otherwise the warrant will be rendered invalid.

11.7. Factory Settings

rinsing duration	6 sec.
wave suppression	12 sec.
automated shutdown after nonstop rinsing	60 min.

In combination with the optional available control panel “Clever Touch” these settings (and many more) can be modified.

Please see “Clever Touch” at www.inazuma-online.com for more information.

During maintenance of the drum filter the power must be unplugged.
The system will detect the opening of the drum filter and will interject the power supply.
Never activate the cover-detection-switch manually.

11.8. High-Pressure Pump – built in and ready to use

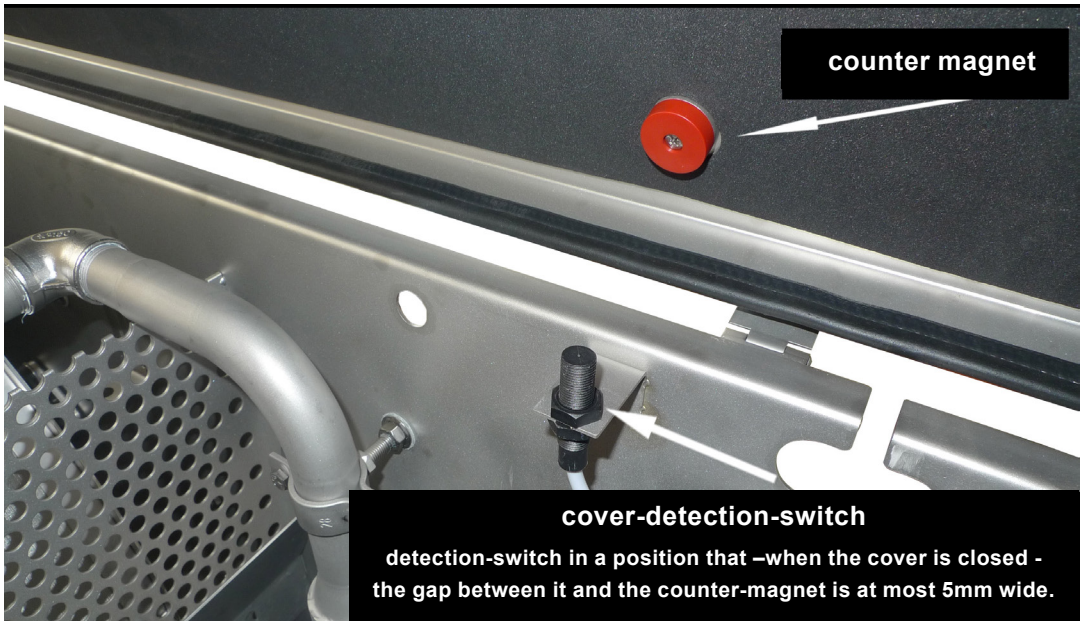
For the routine cleaning of the filter a high-pressure pump is build in and ready to use. It is made out of stainless steel. Constantly immersed it is frost-proof and low-noise.

Pre-Filter

- The pre-filter cartridge must be cleaned in regular intervals (every 4 to 6 weeks).
- Open the big black screwing and take the filter element out. Hold it under clean water. If needed, decalcify.

During maintenance of the drum filter the power chord must be unplugged.
The system will detect the opening of the drum filter and will interject the power supply.
Never activate the cover-detection-switch manually.

11.9. Cover-Detection-Switch


counter magnet
cover-detection-switch
detection-switch in a position that –when the cover is closed - the gap between it and the counter-magnet is at most 5mm wide.

ATTENTION:
The manufacturer will not assume liability for damages emerged by misuse of the product or parts of it or by non-observance of rules, guides and manuals provided in this document and additional documents provided with the product.

Your Inazuma drum filter is now ready to use!

11.10. Touchscreen display “Clever” (optional – not included)

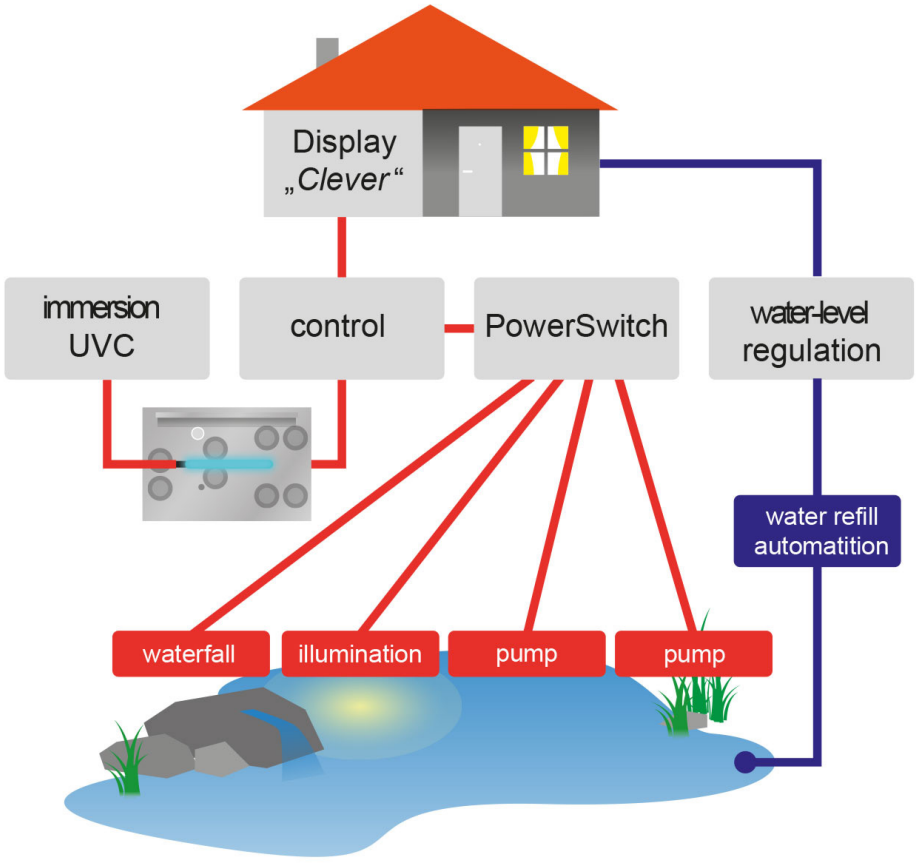
The control panel “Clever Touch” can be used to personalize settings.
Various parameters can be arranged and informations can be obtained quickly.

Please see “Clever Touch” at www.inazuma-online.com for more information or – if you are in the possession of a “Clever Touch” - use the provided manual.

11.11. Power Switch *„Clever“* (optional)

The ideal control center for your garden: pond pump, waterfall pump, garden lightning – everything can be controlled from one position. All functions of the Power Switch are accessible and programmable via the “Clever Touch” touchscreen.

For more informationen see: www.inazuma-online.com.



12. Maintenance

During maintenance it is regarded to turn the filter of at the power switch and to unplug the power cable. Otherwise there will be a heavy risk of injury.

12.1. hight-pressure pump - nozzles

It is possible that one or more high-pressure nozzles get jammed. This leads to poorer results and shorter cleansing intervals.

In this case clean the nozzle by simply blowing carefully through it. If not sufficient clean the nozzle with a toothbrush. Do not use sharp or aggressive tools like cutter-knifes or brushes made out of steel. This could lead to damage.

12.2. strainer (mesh)

If the mesh of the strainer is compromised it can easily be replaced.
Affected by the condition of the water running through it, it can happen that the strainer mesh needs to be cleaned. Please look at chapter 12.6 in this document for further instructions.

12.3. waste flow trench

Once a week it is needed to control the waste flow trench (waste disposal) to make sure nothing is stuck in it.

12.4. drum seal

ATTENTION
Only authorized personal is allowed to execute this procedure! Caution is needed.

Once or twice a year, especially during winter or after a long period of downtime, it is needed to oil the drum seal to prevent stickiness and support the free and easy rotation of the drum.
Use standard silicone-spray

1. Unplug the high-pressure pump (power-chord)
2. Empty the filter completely
3. Activate “manual Cleaning” -> the filter will start to rotate
   (activate the cover-detection-switch manually with a standard magnet)
4. Spray silicon at the thin drum wall (at the open side of the drum)
   and let the drum rotate (minimum one full cycle)
5. Plug the power chord of the high-pressure pump back in
6. The drum filter is ready to use back again

12.5.operation during winter

At temperatures below 0° Celsius the filter must be deactivated and emptied completely.

12.6. calcification

According to the hardness of the water in use, it is possible that a (non-visible) calcification of the strainer mesh occurs.

Possible indication is the close-to-non-stop-activation of the cleansing-process.

ATTENTION

Only authorized personal is allowed to execute this procedure! Caution is needed.

➔ We suggest the usage of a 30% hydrogen peroxide solution for the decalcification of the strainer mesh.

1. Unplug the high-pressure pump (power-chord)
2. Empty the filter completely
3. Apply the solution direct on the mesh with a brush
4. Activate “manual Cleaning” -> the filter will start to rotate
   (activate the cover-detection-switch manually with a standard magnet)
5. Repeat step 3 and 4 till the whole mesh is covered
6. Wait 10 to 15 Minutes to let the solution react
7. Clean the strain mesh with clean water
8. Plug the power chord of the high-pressure pump back in
9. The drum filter is ready to use back again

➔ If this procedure doesn’t leads to success please contact your dealer/supplier.

Do not store tools or utilities inside the filter!
Please read the safety instructions of the bleach carefully and follow it closely.

13. Technical Data

Materials in use

stainless steel: 1.4301: case, drum connections, trench etc.
plastic: seal, rollers, flanged housing unit

Motor and Control

power supply control	220 Volt / 50 Hz
power supply sensor	12 Volt
power supply cover-detection-switch	12 Volt
power supply motor	220 Volt / 50 Hz

Hight-Pressure Pump	220 Volt / 50 Hz
Power:	0,6 kW
Hmax	42 m
Qmax	45 l/min

14. Warranty

The warranty only includes the drum itself, the case, the control and the motor.
The strain mesh is excluded from warranty.

The manufacturer will not assume liability for damages emerged by misuse or improper installation of the product or parts of it or by non-observance of rules, guides and manuals provided in this document and additional documents (including stickers and warning signs) provided with the product or if the assembly or commissioning by the customer or third party is performed incorrectly.

The liability only covers the refund of broken products, not damages of persons or property.

Improper installation and operation of the product will render the warranty invalid.

The manufacturer will not assume liability for damages of persons or property emerged by unauthorized alterations or modifications. This especially includes alterations of the case, the drum and of the control.

Unauthorized alteration or modifications of the product or parts of it will render the warranty invalid.

The alteration or unauthorized replacement or alteration of chords or/and connection plugs will render the warranty invalid.

Damages caused by calcification are excluded from warranty.

This guarantee is not transferable and is only valid for the original purchaser who bought the products from an authorized distributor, its retailers or authorized sales representatives.

Seriennummer

Zertifikat zur Qualitätssicherung

Certificate of quality

Trommelfilter

Drumfilter

Endmontage / Final assembly:

• Drehrichtung Motor geprüft	Direction of rotation from the engine	☐
Düsen richtig montiert und positioniert	Position and mounting of the nozzles	☐
• Einstellung der Trommel kontrolliert	Setting oft he drum	☐
Schrauben auf Festigkeit / Dichtigkeit geprüft	Tightness of the screws	☐
Deckel schließt sauber	Lid closes clean and smooth	☐
• Gehäuse auf Verzug kontrolliert	Housing is without distortion	☐
• Filter von Produktionsrückständen gesäubert	Residues from production removed	☐

Mechanic
Monteur:

Versand / Shipping:

• Optische Sichtkontrolle des Filters durchgeführt	Visual inspection of the filter	☐
• Funktionstest (Drehrichtung, Deckelschalter, Schwimmerschalter, Laufzeit)	Function test (direction of rotation, switch for lid, float control, running time	☐
• Einstellungen an der Steuerung überprüft	Settings of the control unit	☐
• Label „UVC – Typenschild – Logo“ angebracht	Labels „UVC-nameplate-logo“ attached	☐
• Label „Seriennummer“ angebracht	Label „serial number“ attached	☐
• Bedienungsanleitung vorhanden	Manual for the drumfilter included	☐
• Filter auf Sauberkeit geprüft	Filter checked for cleanliness	☐

Warehouse
Lager:

Service order / repair trace-form

If you want a warranty repair - the purchase receipt (proof of purchase) is required !!!
Please provide a copy and send it together with this form via
fax to +49 (0)821 7291973 or via mail at service@inazuma-online.de

customer data

firstname, name

street, house number

zip-code, postal adress (country)

telephone

email

product data

product name | serial number

date of purchase | date of commissioning

☐ Installation was made by customer

☐ Installation was made by authorized personal

stamp/sign (authorized personal)

discription of the error/damage

order placing and confirmation

☐ chargeable repair ☐ estimate of costs (1)

☐ waranty repair (2)

(1) I hereby declare that I´m aware that estimate of costs will be charged with € 29 Euro + MwSt. & shipping.
This fee will be eliminated if the order for repair is finally placed.

(2) I hereby declare that I´m aware that in the case that the error/damage is not covered by warranty I will have to cover the costs for shipping and service (finding the error). The product will not be repaired till a final order is placed.

Do not try to repair the filter yourself!
This could lead to the expiration of the warranty and/or can cause extra work to find the error/damage.

date, signature

During transportation take all precaution to avoid breaking or damaging the product.

Johannes Kurzweil GmbH | Eisackstraße 16 | 86165 Augsburg | Telefon: 0821 / 72 919 71 | Telefax: 0821 / 72 919 73